

REMARKS

Applicant has carefully studied the outstanding Official Action mailed on December 13, 2007. This response is intended to be fully responsive to all points of rejection raised by the Examiner and is believed to place the application in condition for allowance. Favorable reconsideration and allowance of the application are respectfully requested.

Claims 13-14 stand rejected under 35 USC §112, first paragraph. The Examiner states there is no basis for the magnetic switch and the capacitor being two lumped elements. Applicant respectfully traverses these rejections. As is well known in the art, components may be realized in one of two forms: lumped (real components, like capacitors, inductors, resistors, etc.) and distributed (as in transmission lines where there is interaction between inductance, capacitance and resistance). In the instant invention, it is clear to anyone skilled in the art that the real components of the circuit diagrams are lumped (unless otherwise marked and there is no such marking to the contrary). Additionally, in the text of the specification these real components are mentioned (e.g., pulsed transformer, capacitor, magnetic switch, etc.) and are clearly understood as lumped to anyone skilled in the art.

Claim 1 stands rejected under 35 USC §102(e) for being anticipated by Cravey (US 6362604).

Claims 2-3, 6-14 and 16 stand rejected under 35 USC §103(a) as being unpatentable over Cravey in view of von Bergmann (US 6999492).

Applicant respectfully traverses these rejections, as is now explained in detail. Examiner relies on Fig. 4 of Cravey and describes which elements are connected to others. Applicant respectfully wishes to point out that the connections stated by the Examiner are not found in Fig. 4 of Cravey or any other embodiment. Respectfully, contrary to what is stated in the office action, the energy source 10 in Fig. 4 is not connected to the primary winding of the pulse transformer 20, but rather to energy storage capacitor 38 of energy recovery circuit 100. The magnetic switch 42 is not connected to the load 24, but rather to blocking diode 30. The so-called “low impedance path” of energy recovery circuit 102 and diode 36 are not connected in parallel to the load 24; rather load blocking diode 32 is connected between these elements and load 24. It is contrary to the accepted practice in the art that connected can be broadly interpreted to mean indirectly connected. There is no basis in the MPEP for such an interpretation.

In the rejection of claim 6, Examiner states the “secondary winding (right side winding) is connected in parallel (see connection in Fig. 4 for example) to a first capacitor (item 44) and by a first of its terminals to a first terminal of a second capacitor”.

Respectfully, contrary to what is stated in the office action, the secondary winding is not connected by a first of its terminals to a first terminal of a second capacitor.

It is noted that capacitor 44 of Cravey cannot be charged through diode 36 because blocking diode 30 is connected inversely to the direction of any potentially flowing current of diode 36.

It is noted that despite capacitors 12 and 14 being referred to in Cravey as storage capacitors, nevertheless **capacitors 12 and 14 do not function as storage capacitors** in the usual sense (which is the sense of the instant application) of retaining the energy for any amount of time and not getting discharged by the physical timing of the different sub-circuits. Even for this reason alone, Cravey's circuit shows a totally different topology than the compression circuit of the instant invention.

In addition, it is respectfully submitted that the combination of Cravey and von Bergmann is not proper, because the fast high current commutator in Bergmann et al. is not intended to control the saturation of the magnetic switch.

Claims 1-4 and 6-16 are accordingly deemed allowable. Applicant respectfully requests that a timely Notice of Allowance be issued in this case.

Respectfully submitted,
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